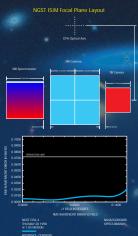


# **NEXT GENERATION SPACE TELESCOPE**



Instrument	Wavelength	Bandwidth	FPA		Plate Scale	Aperture Control
	(µm)			(µm)	(10° arc-sec)	(arc-min)
Near-IR Camera (1 of 41)	0.6 - 5.3	R = 2.5 fixed filters.	4096 x 4096	27	29	guad-beam divider: four 2 x 2 fields
		R = 50 - 200 tunable filters				
Near-IR Spectrometer	0.6 - 5.3	R = 300, 3000 gratings	4096 x 4096	27		reflective slit mask: 2048 x 2048
						micro-mirror array, 100µm pixels
Mid-IR Camera/Spec	5 – 28		1024 x 1024	27	230	slit selection + 2 x 2 camera
		grisms, cross-disperser				



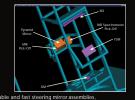
## The NGST Yardstick Integrated Science Instrument Module (ISIM) Feasibility Study

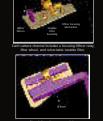
M.A. Greenhouse and the NGST ISIM Team

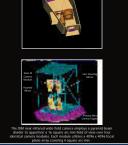
### Optical Design

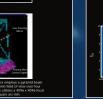
### **Opto Mechanical Layout**

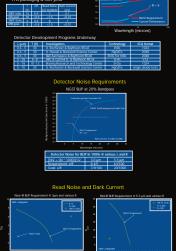




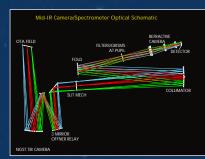




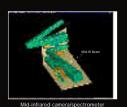




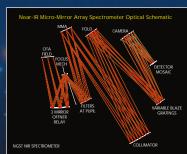
Focal Plane Arrays





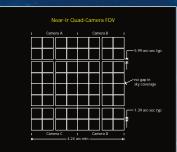












# A Wide Range of ISIM Instrument and Technology Development Programs Are Currently Underway